

translating the message request into parameters that are accessible by the RTOS.

C1 2. (Amended Four Times) The method of claim 1, further comprising:

sending the message request as a translated request to the PMU.

C2 6. (Amended) The method of claim 1, wherein the parameters includes at least one of (i)

control parameters for hardware-based performance monitoring resources, (ii) mode-specific

control parameters for a performance monitoring resource, and (iii) data parameters for at least one mode in one counter.

C3 7. (Twice Amended) The method of claim 7, wherein the parameters includes at least one of the following parameters: an adjusted sample, a control, a counter, a current mode, a current time, an ending time, an interval, a lock control, a maximum algorithm, a maximum mode, a minimum sample interval, a minimum sample unit, a mode control, a number counter, type of performance monitoring hardware available, a sample interval, a sigma time, and a status.

C4 8. (Amended Four Times) The method of claim 1, further comprising:

generating performance monitoring storage tables within a memory of the I/O processor.

C5 9. (Amended) The method of claim 9, further comprising:

subsequent to returning the data requested by the translated request to the performance monitoring driver, sending the data to the performance monitoring storage tables.

C6 10. (Three Times Amended) The method of claim 10, wherein sending the data to a location specified in the message request further includes sending the data at a time period specified in the message request.

Entry of the following claims are requested:

- 1 ²³~~23~~. (New) A method comprising:
2 sending requested data from a performance monitoring unit to a performance
3 monitoring driver that is registered with a real time operating system (RTOS) on an input/output
4 processor (IOP); and
5 sending a message with the data from the RTOS to a host processor.
- 1 ²⁴~~24~~. (New) A method according to claim ²³~~33~~ further comprising:
2 returning data received in the message to a performance monitor application.
- 1 ²⁵~~35~~. (New) The method according to claim ²³~~35~~ wherein sending the message to the host
2 processor includes sending the message through an operating system specific module.
- 1 ²⁶~~36~~. (New) The method according to claim ²³~~36~~ further comprising:
2 generating performance monitoring storage tables within memory of the I/O
3 processor.
- 1 ²⁷~~37~~. (New) An apparatus comprising:
2 a performance monitoring unit (PMU);
3 an I/O processor coupled to the PMU, the I/O processor to run a real-time operating
4 system (RTOS)
5 wherein the RTOS registers at least one performance monitoring driver;
6 wherein the RTOS translates message requests into parameters.
- 1 ²⁸~~38~~. (New) An apparatus according to claim ²⁷~~38~~, wherein the RTOS sends a translation
2 request to the performance monitoring driver.
- 1 ²⁹~~39~~. (New) An apparatus according to claim ²⁷~~39~~ further including:
2 a storage device to store tables for collecting requested data.
- 1 ³⁰~~40~~. (New) A system comprising:

- 2 a host processor;
3 an input/output processor coupled to the host processor;
4 the I/O processor to run a real time operating system (RTOS), the RTOS to register
5 a performance monitoring driver; and

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- 6 a performance monitoring circuit (PMU) coupled to the I/O processor.
7 (New) The system of claim ~~40~~³⁰, wherein the host processor runs a performance
8 monitoring application to request data from the PMU.

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- 9 (New) The system of claim ~~40~~³⁰, wherein the host processor runs an operating
10 system specific module to send platform independent messages to the I/O processor.
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